ALIGNMENT OF CRY3 SEQUENCES

(Numbered according to Cry3BB) (alpha helices underlined, beta sheets marked with +++'s)

CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	MNPNNF		NSELPTNHNQ) NSELQTNHNQ) NSELPTNHNQ)	YPLADNPNSTL YPLADNPNSTL YPLADNPNSTL	EELNY EELNY EELNY
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	50 KEFLRRTTDNNVE, KEFLRMTEDSSTE KEFLRMTEDSSTE KEFLRMTADNSTE KEFLRMTADNNTE,	VLDNSTVKDAV VLDNSTVKDAV VLDSSTVKDAV	GTGISVVGQI GTGISVVGQI GTGISVVGQI	LGVVGVPFAG <i>A</i> LGVVGVPFAG <i>A</i> LGVVGVPFAG <i>A</i>	ALTSFY ALTSFY ALTSFY
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	100 TNLLNTIWPGE-DI QSFLDTIWPSDADI QSFLNTIWPSDADI QSFLNAIWPSDADI TNFLNTIWPSE-DI	PWKAFMAQVEV PWKAFMAQVEV PWKAFMAQVEV	LIDKKIEEYA LIDKKIEEYA LIDKKIEEYA	KSKALAELQGI KSKALAELQGI KSKALAELQGI	.QNNFE .QNNFE .QNNFE
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	150 DYVSALDSWDKTPI DYVNALNSWKKTPI DYVNALNSWKKTPI DYVNALDSWKKAPV DYVSALSSWQKNPV	LSLRSKRSQDR LSLRSKRSQDR /NLRSRRSQDR	IRELFSQAESI IRELFSQAESI IRELFSQAESI	HFRNSMPSFAV HFRNSMPSFAV HFRNSMPSFAV	SKFEV SKFEV SKFEV

Replacement Sheets

CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	200 LFLPTYAQAANTHL LFLPTYAQAANTHL LFLPTYAQAANTHL LFLPTYAQAANTHL LF <u>LTTYAQAANTHL</u>	LLLKDAQVFG LLLKDAQVFG LLLKDAQVFG	EEWGYSSEDV EEWGYSSEDV EEWGYSSEDI	AEFYHRQLKL AEFYHRQLKL AEFYQRQLKL	TQQYTD TQQYTD TQQYTD
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	250 HCAKWYKAGLDKLR HCVNWYNVGLNGLR HCVNWYNVGLNGLR HCVNWYNVGLNSLR HCVKWYNVGLDKLR	GSTYDAWVKF GSTYDAWVKF GSTYDAWVKF	NRFRREMTLT' NRFRREMTLT' NRFRREMTLT'	VLDLIVLFPF VLDLIVLFPF VLDLIVLFPF	YDVRLY YDIRLY YDVRLY
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	300 TKGVKTELTRDVLT SKGVKTELTRDIFT SKGVKTELTRDIFT SKGVKTELTRDIFT PKEVKTELTRDVLT ++++++++++++++++++++++++++++++++++++	DPIFSLNTLQ DPIFSLNTLQ DPIFTLNALQ DPIVGVNNLR	EYGPTFLSIEI EYGPTFLSIEI EYGPTFSSIEI	NSIRKPHLFD' NSIRKPHLFD' NSIRKPHLFD'	YLQGIE YLQGIE YLRGIE
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	350 FHSRLQPGYFGTDS FHTRLQPGYSGKDS FHTRLRPGYSGKDS FHTRLRPGYSGKDS FHTRFQPGYYGNDS	FNYWSGNYVE FNYWSGNYVE FNYWSGNYVE	TRPSIGSSKT TRPSIGSSKT TRPSIGSNDT TRPSIGSNDI	ITSPFYGDKS ITSPFYGDKS ITSPFYGDKS	TEPVQK TEPVQK IEPIQK
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	400 LEFNGEKVFRAVAN LSFDGQKVYRTIAN LSFDGQKVYRTIAN LSFDGQKVYRTIAN LEFNGEKVYRAVAN	TDVAAWPNG- TDVAAWPNG- TDIAAFPDG-	KIYFGVTI KVYLGVTI KIYFGVTI VYSGVTI	KVDFSQYDDQI KVDFSQYDDQI KVDFSQYDDQI	KNETST KNETST KNETST

Replacement Sheets

CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	440 450 460 470 480 QTYDSKRNVGGIV-FDSIDQLPPITTDESLEKAYSHQLNYVRCFLLQGGR QTYDSKRNNGHVGAQDSIDQLPPETTDEPLEKAYSHQLNYAECFLMQDRR QTYDSKRNNGHVSAQDSIDQLPPETTDEPLEKAYSHQLNYAECFLMQDRR QTYDSKRYNGYLGAQDSIDQLPPETTDEPLEKAYSHQLNYAECFLMQDRR QTYDSKRNVGAVS-WDSIDQLPPETTDEPLEKGYSHQLNYVMCFLMQGSR ++++ ++++++
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	490 500 510 520 530 GIIPVFTWTHKSVDFYNTLDSEKITQIPFVKAFILVNSTSVVAGPGFTGG GTIPFFTWTHRSVDFFNTIDAEKITQLPVVKAYALSSGASIIEGPGFTGG GTIPFFTWTHRSVDFFNTIDAEKITQLPVVKAYALSSGASIIEGPGFTGG GTIPFFTWTHRSVDFFNTIDAEKITQLPVVKAYALSSGASIIEGPGFTGG GTIPVLTWTHKSVDFFNMIDSKKITQLPLVKAYKLQSGASVVAGPRFTGG
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	540 550 560 570 580 DII-KCT-NGSGLTLYVTPAPDLTYSKTYKIRIRYASTSQVRFGIDLGSY NLLFLKESSNSIAKFKVTL-NSAALLQRYRVRIRYASTTNLRLFVQNSNN NLLFLKESSNSIAKFKVTL-NSAALLQRYRVRIRYASTTNLRLFVQNSNN NLLFLKESSNSIAKFKVTL-NSAALLQRYRVRIRYASTTNLRLFVQNSNN DII-QCTENGSAATIYVTPDVSYSQKYRARIHYASTSQITFTLSLDGA
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	590 600 610 620 630 THSISYFDKTMDKGNTLTYNSFNLSSVSRPIEISG-GNKIGVSVGGIGSG DFIVIYINKTMNIDDDLTYQTFDLATTNSNMGFSGDTNELIIGAESFVSN DFLVIYINKTMNKDDDLTYQTFDLATTNSNMGFSGDKNELIIGAESFVSN DFLVIYINKTMNIDGDLTYQTFDFATSNSNMGFSGDTNDFIIGAESFVSN PFNQYYFDKTINKGDTLTYNSFNLASFSTPFELSGNNLQIGVTGLSAG
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	640 650 DEVYIDKIEFIPMD (SEQ ID NO:109) EKIYIDKIEFIPVQL (SEQ ID NO:110) EKIYIDKIEFIPVQL (SEQ ID NO:111) EKIYIDKIEFIPVQ (SEQ ID NO:112) DKVYIDKIEFIPVN (SEQ ID NO:113)